

AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

You need to create a new app that will consume resources from the following Azure Cognitive Services APIs:

1.

Face API

2.

Bing Search

3.

Text Analytics

4.

Translator Text

5.

Language Understanding (LUIS)

The solution must prepare the development environment as quickly as possible.

What should you create first from the Azure portal?

- A. an Azure Key Vault resource
- B. a Cognitive Services resource
- C. an Azure Kubernetes Service (AKS) resource
- D. Face and Language Understanding (LUIS) resources

Correct Answer: B

After creating a Cognitive Service resource in the Azure portal, you'll get an endpoint and a key for authenticating your applications. Create a new Azure Cognitive Services resource

1. Create a resource.

Multi-service resource Single-service resource

The multi-service resource is named **Cognitive Services** in the portal. [Create a Cognitive Services resource.](#)

At this time, the multi-service resource enables access to the following Cognitive Services:

Computer Vision	Content Moderator	Face	Language Understanding (LUIS)	Text Analytics
Translator Text	Bing Search v7 (Web, Image, News, Video, Visual)	Bing Custom Search	Bing Entity Search	Bing Autosuggest
Bing Spell Check				

References: <https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-apis-create-account>

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create several AI models in Azure Machine Learning Studio.

You deploy the models to a production environment.

You need to monitor the compute performance of the models.

Solution: You enable AppInsights diagnostics.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

You need to enable Model data collection.

References: <https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-enable-data-collection>

QUESTION 3

You are designing a real-time speech-to-text AI feature for an Android mobile app. The feature will stream data to the Speech service.

You need to recommend which audio format to use to serialize the audio. The solution must minimize the amount of data transferred to the cloud.

What should you recommend?

A. MP3

B. WAV/PCM

C. MP4a

Correct Answer: B

Currently, only the following configuration is supported:

Audio samples in PCM format, one channel, 16 bits per sample, 8000 or 16000 samples per second (16000 or 32000 bytes per second), two block align (16 bit including padding for a sample).

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-audio-input-streams>

QUESTION 4

You are developing an app that will analyze sensitive data from global users.

Your app must adhere the following compliance policies:

The app must not store data in the cloud.

The app not use services in the cloud to process the data.

Which of the following actions should you take?

A. Make use of Azure Machine Learning Studio

B. Make use of Docker containers for the Text Analytics

C. Make use of a Text Analytics container deployed to Azure Kubernetes Service D. Make use of Microsoft Machine Learning (MML) for Apache Spark

Correct Answer: D

<https://github.com/MicrosoftDocs/azure-docs/blob/ccf49761e4aefed30d723805f4f09e753615fb09/articles/cognitive-services/cognitive-services-container-support.md>

QUESTION 5

You have an Azure Machine Learning model that is deployed to a web service. You plan to publish the web service by using the name ml.contoso.com.

You need to recommend a solution to ensure that access to the web service is encrypted.

Which three actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Generate a shared access signature (SAS)
- B. Obtain an SSL certificate
- C. Add a deployment slot
- D. Update the web service
- E. Update DNS
- F. Create an Azure Key Vault

Correct Answer: BDE

The process of securing a new web service or an existing one is as follows:

1.
Get a domain name.
2.
Get a digital certificate.
3.
Deploy or update the web service with the SSL setting enabled.
4.
Update your DNS to point to the web service.

Note: To deploy (or re-deploy) the service with SSL enabled, set the `ssl_enabled` parameter to True, wherever applicable. Set the `ssl_certificate` parameter to the value of the certificate file and the `ssl_key` to the value of the key file.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-secure-web-service>

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